

**IN THE UNITED STATES DISTRICT COURT  
FOR THE WESTERN DISTRICT OF NORTH CAROLINA  
STATESVILLE DIVISION**

RAMONA WINEBARGER and REX WINEBARGER,  
Plaintiffs,

**CASE NOS. 5:15CV57-RLV;  
3:15CV211-RLV**

v.  
BOSTON SCIENTIFIC CORPORATION,  
Defendant

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MARTHA CARLSON,  
Plaintiff,

v.  
  
BOSTON SCIENTIFIC CORPORATION  
Defendants

**PLAINTIFFS OBJECTIONS AND COUNTER DESIGNATIONS TO DEFENDANT  
BOSTON SCIENTIFIC'S DEPOSITION DESIGNATIONS OF DENNIS MILLER, M.D.  
TAKEN ON NOVEMBER 15, 2013**

<b>BSC Designations</b>	<b>Objection</b>	<b>Plaintiffs Counter Designation</b>
dm052314, (Pages 465:17 to 477:2) 465 17 What are the surgical treatment 18 options that -- for pelvic organ prolapse? 19 A Well, this is a very important aspect to all of our 20 discussion because we treat prolapse in a variety of 21 ways. For myself, I use all three of these methods 22 to treat prolapse, and it's all about patient 23 selection and who the patient is and who you are as a 24 surgeon. 466 1 And so the first approach is the 2 so-called native tissue repair, which is the anterior 3 and posterior repair, which is lifting of the vaginal 4 tissues. It's been around since about 1917, with 5 suspension of the vagina. And generally, if the	465:17- 477:2 FRE 401, 402, 403 701, 702 Dr. Miller is not designated as an expert.	

6	woman has a uterus, it involves performing a		
7	hysterectomy as well.		
8	Q And are there limitations to that type of		
	surgery in		
9	terms of drawbacks?		
10	A Yeah. Every textbook in OB/GYN dating		
	back even into		
11	the '50s has referred to the unfortunate degree		
	of		
12	failure. You know, when you talk to women		
	who are		
13	older, they'll tell you that their physicians told		
14	them that the repairs would only last five years.		
15	And they'll be familiar, "Oh, yes, my mother		
	had that		
16	done two, three, four times."		
17	And so one of the main limitations of		
18	the native tissue repair that mean we can't use it		
	in		
19	every single patient is that there's substantial		
20	failure.		
21	And the other aspect to it is, you		
22	know, there's a lot of suture entrapment issues,		
	and		
23	there's binding that happens. In some studies		
	the		
24	painful intercourse rates are 50 percent of the		
	467		
1	patients. And so there's -- there is limitations		
2	to any surgery, of course.		
3	And I performed native tissue repair		
4	in a substantial portion of my patients, but those		
5	are the limitations to it.		
6	Q And then the second bullet point is abdominal		
7	colposacropexy. Tell the jury what that is.		
8	A It's important to suspend the vagina at its		
	deepest		
9	part. That's -- that's really the -- the center tent		
10	pole of your tent. And the colposacropexy is		
	an		
11	attempt to fixate the vagina inside the abdomen		
	going		
12	from above.		
13	The problem is the vagina won't reach		
14	the fixation point, so you generally have to add		
	--		
15	as a part of this operation, you always have to		
	add a		
16	graft material of some type. Polypropylene is		
17	currently considered the best, and so it is the		
	most		

18	common graft used. So polypropylene mesh is		
19	generally used to suspend the vagina.		
20	But, again, you have to move the		
21	colon, you have to move the rectum and the		
	bladder,		
22	and you have to expose the sacrum in order to		
	fixate		
23	this piece of mesh from the vagina to the		
	sacrum.		
24	Q So how does abdominal -- abdominal		
	sacrocolpopexy		
	468		
1	differ from transvaginal mesh in bullet point 3?		
2	What's the difference between those two?		
3	A The difference is the approach.		
4	Mesh is placed generally		
5	laparoscopically or robotically from above after		
	the		
6	performance of a hysterectomy, versus the		
7	transvaginal mesh is taking that same		
	polypropylene		
8	mesh and inserting it transvaginally.		
9	Q And are there other limitations or drawbacks		
	that you		
10	have to consider before performing an		
	abdominal		
11	sacrocolpopexy?		
12	A Well, it's a good surgery as well, as is native		
13	tissue repair. That's why I perform all three.		
14	But the limitations are, for one		
15	thing, the complexity of the operation; the very		
	act		
16	of having to move the colon and the rectum and		
	the		
17	bladder. And there's a 1 percent incidence of		
	bowel		
18	obstruction because the mesh is inside of the		
19	abdomen.		
20	Q And then the third bullet that you identify on		
	the		
21	surgical options says "Transvaginal" --		
	"Transvaginal		
22	(vaginal mesh)."		
23	Tell the jury what that means.		
24	A Well, that means taking that same		
	polypropylene mesh		
	469		
1	or -- you know, in -- other grafts can be used,		
2	biological grafts can be used, but taking a graft,		
3	generally polypropylene, and fixing it from a		
4	transvaginal approach.		

<p>5               So you don't need to move those other</p> <p>6       organs in order to get to the place where you</p> <p>want to</p> <p>7       fixate -- where you want to fixate the mesh. So</p> <p>it's</p> <p>8       another one of the options for doing it.</p> <p>9   Q   And both the abdominal sacrocolpopexy and</p> <p>the</p> <p>10      transvaginal mesh involve using a graft or a</p> <p>mesh</p> <p>11      material of some kind?</p> <p>12   A   Yes.</p> <p>13   Q   And what's the purpose of that? What</p> <p>function does</p> <p>14      the mesh itself provide? Why is it used in</p> <p>those</p> <p>15      surgeries?</p> <p>16   A   Well, the goal -- the goal of it is to attempt to</p> <p>17      increase the durability of that repair because,</p> <p>you</p> <p>18      know, what we've -- what we've known for</p> <p>many years,</p> <p>19      and I've seen in my own practice even, is that</p> <p>you --</p> <p>20      you can't expect all these repairs to -- to last</p> <p>over</p> <p>21      time.</p> <p>22               And the -- the introduction of mesh is</p> <p>23      about improving the durability of the repair.</p> <p>24   Q   Has -- transvaginal mesh, has it gone through</p> <p>470</p> <p>1      developments over time?</p> <p>2   A   Yes. Transvaginal mesh has been around, as I</p> <p>said,</p> <p>3      since the 1980s. And I first saw it when</p> <p>performed</p> <p>4      by Dr. Tom Julian in Madison, who was one of</p> <p>the</p> <p>5      early proponents and one of the early</p> <p>investigators</p> <p>6      to publish on it.</p> <p>7               And for many years we would cut our</p> <p>8      mesh and fixate it with suture or with the Capio</p> <p>9      device. There are a variety of ways of putting</p> <p>10     them -- putting the mesh in place.</p> <p>11               But one of the challenges in doing</p> <p>12     it -- and this is where the devices came in -- is</p> <p>13     you're trying to perform surgery through what</p> <p>is</p> <p>14     essentially a very small opening. The vaginal</p> <p>15     opening -- to enter through the vaginal opening</p>		
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16	is difficult, particularly because the most		
17	important part of the repair is something that's		
18	5 or 6 inches away deep inside.		
19	And so that's where the evolution		
20	came in, how can we have a more effective fixation?		
21	How can we do a better job of providing a way to		
22	deliver the mesh into the play -- into where we want it		
23	to be?		
24	Q I want to flesh this out a little bit more.		
	471		
1	If you could turn over to slide 19 and		
2	explain to the jury what this demonstrates in		
3	terms of the evolution of vaginal mesh.		
4	A When you look at the top left, the mesh sheets,		
5	that's -- that's how mesh came. And so mesh		
6	was then introduced in a variety of ways.		
7	And by 2000, surgeons began to --		
8	beginning in Australia and Italy and France and		
9	the U.S., particularly Tom Julian, began to		
10	customize those shapes.		
11	But if you look at them, they were all		
12	sort of irregular, and there was a lack of		
13	reproducibility. And so there was this very		
14	inconsistent way of fixing the mesh into place		
15	and inconsistent shapes to the mesh going through		
16	what is this difficult opening.		
17	And then on the bottom --		
18	Q So before we go to the bottom, so on the top		
19	when we -- these sheets of mesh, the square sheets,		
20	and then in the middle of the page the one that's cut		
21	to shape, are these polypropylene sheets of mesh?		
22	A Yes. The ones you see here are polypropylene.		
23	Q And so was polypropylene mesh being used to		
24	treat pelvic organ prolapse back in -- back this far?		
	472		

<p>1 A You know, my practice goes back to 1989, and so it's</p> <p>2 hard for me to comment about prior to 1989.</p> <p>But yes,</p> <p>3 certainly throughout my entire career I've been aware</p> <p>4 of surgeons using grafts, and particularly</p> <p>5 polypropylene, to reinforce their repairs.</p> <p>6 Q And then take the jury, then, from the first two</p> <p>--</p> <p>7 the top, the three pictures on the top, to the</p> <p>8 bottom.</p> <p>9 What's the advancement that was made,</p> <p>10 then, after 2004 when we start talking about</p> <p>11 first-generation kits?</p> <p>12 A Well, surgeons in general started to talk together</p> <p>13 about ways of improving the ability to fixate the</p> <p>14 mesh, to deliver it.</p> <p>15 And we started talking about, you</p> <p>16 know, we know where we want it to go and we know what</p> <p>17 we want to do; we want to fix it. But just how do</p> <p>18 you do it? We need a new hammer; we need a new</p> <p>19 screwdriver.</p> <p>20 And industry became involved with</p> <p>21 their engineers at creating fixation devices.</p> <p>And</p> <p>22 the first generation was to use -- can I grab this?</p> <p>23 Q Sure.</p> <p>24 A -- to use these trocars and to pass them through the</p> <p>473</p> <p>1 skin and through the buttock area and just lateral to</p> <p>2 the vagina and have it enter the vagina at its</p> <p>3 topmost place. And that really improved</p> <p>4 substantially our ability to get mesh into place.</p> <p>5 But, you know, we're -- we're always</p> <p>6 trying to move forward. And one of my thoughts was,</p> <p>7 Can we do this without passing these trocars?</p> <p>And so</p> <p>8 could we fixate the mesh by going in through the same</p>		
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<p>9 incision and yet still reach that area 5 or 6 inches</p> <p>10 away?</p> <p>11 Q So the -- what is the device that you're holding in</p> <p>12 your hand?</p> <p>13 A This is a needle that is from a Prolift device.</p> <p>14 Q Okay. And that was part of a device that came on the</p> <p>15 market prior to the Pinnacle and Uphold devices?</p> <p>16 A That is correct.</p> <p>17 (Exhibit 1038 marked for identification.)</p> <p>18 BY MR. ANIELAK:</p> <p>19 Q I've marked as Deposition Exhibit No. 1038 a</p> <p>20 presentation that has your name on the outside of it.</p> <p>21 Do you see that?</p> <p>22 A Yes.</p> <p>23 Q And this was a presentation that you made in 2007?</p> <p>24 A Yes.</p> <p>474</p> <p>1 Q And I want to talk about a couple of your slides in</p> <p>2 here to flesh out this discussion regarding the</p> <p>3 medical devices that were on the market prior to the</p> <p>4 Pinnacle device, okay?</p> <p>5 If you turn over to slide 4, which is</p> <p>6 658. So in terms of the history of the development</p> <p>7 of medical devices that treat pelvic organ prolapse,</p> <p>8 tell the jury what these devices are.</p> <p>9 A Apogee/Perigee was the first device to market;</p> <p>10 Prolift second; and Avaulta third, which are fixation</p> <p>11 devices to improve the way that we get the mesh to</p> <p>12 the desired fixation spots and to secure it down.</p> <p>13 And so they're just examples of using</p> <p>14 those needles. All relatively similar needle</p> <p>15 techniques to introduce the mesh.</p> <p>16 Q And did these devices use polypropylene mesh?</p> <p>17 A Yes.</p> <p>18 Q If you turn over to the next slide.</p> <p>19 And what -- what are you conveying</p> <p>20 here when you're talking about the current lift kit</p>		
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21	advantages?		
22	And before you get into more detail,		
23	you're talking about the devices that were on		
24	the		
24	market prior to Pinnacle; is that right?		
	475		
1	A Apogee/Perigee, Prolift, and Avaulta.		
2	Q And what were some of their advantages?		
3	A Well, for years, surgeons had been introducing		
	mesh		
4	with no real reproducibility and with a variety		
	of		
5	different fixation devices.		
6	The so-called lift kits provided a way		
7	to reproducibly get the mesh into place, and it		
8	provided an amount of adjustability because of		
	the		
9	wings that you don't have when you just sew it		
	into		
10	place; you're locked into the location where		
	you sew		
11	it in.		
12	And it avoids sutures which encircle		
13	the tissues and can compress the tissues and		
	cause		
14	ischemia. And the suture -- the suture fixation		
	of		
15	the sacrospinous ligament is associated with		
16	6 percent incidence of buttock pain. And so it		
17	allows you to avoid those sutures and allows		
	you to		
18	easily get to the location you wanted to get to.		
19	Q When you turn to the next page, you discuss		
	some of		
20	the limitations of the devices that were on the		
21	market prior to Pinnacle; is that right?		
22	A Yes.		
23	Q And what were some of those limitations of		
	the		
24	medical devices that were on the market to treat		
	476		
1	prolapse prior to Pinnacle?		
2	A Well, they were good -- they were good		
	devices, and		
3	they were being used safely. I had good		
	experience		
4	with them. But it did strike me that you're		
	passing		
5	these needles through anatomy that you can't		
	see and		



<p>6 in proximity to neurovascular structures. And so I</p> <p>7 saw the advantage of being able to introduce the mesh</p> <p>8 directly through the vaginal incision.</p> <p>9 Q So tell the jury why passing the needles through</p> <p>10 unfamiliar anatomy, why is that a bad thing?</p> <p>11 A Well, it's not a bad thing.</p> <p>12 Q Okay. Tell the jury what the limitation is of that</p> <p>13 technique.</p> <p>14 A In medicine, less is more, and you always want to</p> <p>15 move forward to increasing simplicity. And passing</p> <p>16 these needles adds another step going through</p> <p>17 tissues that have nerves and blood vessels in them.</p> <p>18 And while -- while that's a path that we are</p> <p>19 generally good at doing, if I can do it directly</p> <p>20 through the incision, I'm going to -- I'm going to</p> <p>21 want to do that.</p> <p>22 Q Okay. What's the advantage of doing it directly</p> <p>23 through the incision as the Pinnacle device does?</p> <p>24 A I'm not passing through those structures. I'm</p> <p style="text-align: center;">477</p> <p>1 bypassing them. I can directly visualize the</p> <p>2 structure I want to fixate to.</p>		
<p>dm052314, (Pages 491:16 to 492:9)</p> <p style="text-align: center;">491</p> <p>16 Q And in terms of your overall experience with</p> <p>17 the Pinnacle device in terms of it successfully</p> <p>18 treating pelvic organ prolapse, what has been</p> <p>19 your experience?</p> <p>20 A You know, I've now had five years of</p> <p>experience with</p> <p>21 the device. And I see all of my patients back,</p> <p>and</p> <p>22 then over time, you see less of them. And we</p> <p>have</p> <p>23 had only the expected amount of complications</p> <p>that</p> <p>24 you get with any surgical procedure and had</p> <p>really</p> <p style="text-align: center;">492</p> <p>1 good outcomes with really satisfied patients by</p> <p>and</p>	<p>491:16-492:9 FRE 401; 403; 701; 702 Dr. Miller is not designated as an expert.</p>	

<p>2 large.</p> <p>3 Q In terms of successfully treating pelvic organ</p> <p>4 prolapse over the time that you've seen your</p> <p>5 patients over the last four or five years, have</p> <p>you</p> <p>6 been pleased with the outcomes in terms of</p> <p>treating</p> <p>7 their prolapse?</p> <p>8 A I have been. I have been happy with the</p> <p>results that</p> <p>9 I've seen going out even to five years after</p> <p>surgery.</p>		
<p>dm052314, (Pages 493:13 to 497:16)</p> <p>493</p> <p>13 Q Okay. In terms of -- Pinnacle went on the</p> <p>market in</p> <p>14 January of 2008.</p> <p>15 When did you start performing</p> <p>Pinnacle</p> <p>16 surgeries in terms of when Pinnacle went on</p> <p>the</p> <p>17 market?</p> <p>18 A I performed the first Pinnacle procedure.</p> <p>19 Q And so was that pretty soon after January of</p> <p>2008?</p> <p>20 A It was during January of 2008.</p> <p>21 Q And you were asked some questions earlier</p> <p>about</p> <p>22 clinical trials.</p> <p>23 Were there any clinical trials</p> <p>24 specifically with Pinnacle prior to going to</p> <p>market</p> <p>494</p> <p>1 in January of 2008?</p> <p>2 A No, there were not.</p> <p>3 Q Why were you comfortable using Pinnacle in</p> <p>January of</p> <p>4 2008 in patients when there weren't clinical</p> <p>trials</p> <p>5 specifically with the device?</p> <p>6 A Because it's one of the important concepts that</p> <p>is</p> <p>7 sometimes lost in this debate, and that is what I</p> <p>8 have invented is an incremental improvement in</p> <p>the</p> <p>9 way we tack mesh down. It's a new hammer;</p> <p>it's a new</p> <p>10 screwdriver.</p> <p>11 Mesh and grafts in general have been</p> <p>12 used for many, many years to treat prolapse,</p> <p>and</p>	<p>493:13- 497:16 FRE 401; 403; 701; 702 Dr. Miller is not designated as an expert.</p>	

<p>13 there have been incremental changes throughout all of</p> <p>14 that time period. There's been vast amounts of 15 research. In fact, there's far more research for the</p> <p>16 vaginal approaches to mesh than the abdominal 17 approaches to mesh and, frankly, to the native tissue</p> <p>18 repair approaches to mesh -- to prolapse repair. 19 And so we -- in my mind and what I 20 decided for my patients was that this was an 21 incremental change in my tools. And surgeons change</p> <p>22 their tools all the time. 23 The procedure is mesh-reinforced 24 prolapse repair, and the tools you use will evolve</p> <p style="text-align: center;">495</p> <p>1 over time.</p> <p>2 Q Had -- mesh-enforced prolapse repair, had that been</p> <p>3 done prior to Pinnacle coming on the market?</p> <p>4 A Yes. Mesh-reinforced prolapse repair has been a part</p> <p>5 of the armamentarium of urogynecologists for many</p> <p>6 years.</p> <p>7 Q And has that also been true of polypropylene 8 mesh-based prolapse repairs?</p> <p>9 A Yes. Polypropylene has been, over the decade and</p> <p>10 beyond -- the last decade and beyond, the most 11 commonly used graft.</p> <p>12 Q You mentioned to the jury earlier that you use 13 different techniques in treating pelvic organ 14 prolapse; some native tissue, some abdominal 15 sacrocolpopexy, and then some transvaginal mesh. Is</p> <p>16 that right?</p> <p>17 A Yes.</p> <p>18 Q What is the benefit of having those different options</p> <p>19 in terms of treating your patients?</p> <p>20 A It's critical. It's critical because not every 21 patient has the same need.</p> <p>22 And every surgeon, just like every 23 orthopedist and every back surgeon, every heart</p> <p>24 surgeon, we have to make determinations about what's</p> <p style="text-align: center;">496</p>		
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1	best for this patient, is -- based on who that		
2	patient is and what her anatomy is like, as well,		
3	and what her wishes are.		
4	Because that's another piece that's		
5	forgotten in all of this, is that these patients --		
6	that's one of the reasons that led me to		
eventually			
7	write a paper on informed consent, is a lot of		
this			
8	is -- you know, patients come in, and they'll tell		
9	you what their goals are.		
10	And a lot of patients, their goal is		
11	"Look, my friend, my sister, my mother has		
had three			
12	failures of the surgery, so one thing I'm looking		
for			
13	is a durable procedure. What can you do to		
give me a			
14	durable procedure?"		
15	Or in my practice, many of the		
16	patients have already had failures of their prior		
17	surgeries, and they're coming to me with that in		
18	mind.		
19	Now, that's not true for everybody.		
20	Some patients come with entirely different		
requests.			
21	And so it's really this joint		
22	decision, and you can only have that joint		
decision			
23	if you have multiple ways to fix prolapse.		
24	So every patient sees essentially that		
497			
1	slide that you had on the three different		
approaches,			
2	and every patient I go through what are		
inevitably			
3	the pros and the cons.		
4	You can't ever set this up as if there		
5	would be no cons to an approach because there's		
cons			
6	to every surgery. It's why, in my own personal		
life,			
7	I try to avoid surgery if I can. And whether		
that's			
8	having a plate put in or a screw put in or having		
a			
9	native tissue hernia repair, whatever your		
surgery			
10	is, there are potential complications and there		
are			
11	potential failures and you balance that out.		

<p>12 And every surgeon and every patient</p> <p>13 makes that decision individually in this joint</p> <p>14 process. Informed consent is a process. It's not</p> <p>a</p> <p>15 document. It's not a piece of paper to be</p> <p>signed.</p> <p>16 It's this process that you go through.</p>		
<p>dm052314, (Pages 498:23 to 499:18)</p> <p>498</p> <p>23 Q You were asked some questions about</p> <p>polypropylene,</p> <p>24 the material that's used both in the Pinnacle</p> <p>device</p> <p>499</p> <p>1 in midurethral slings and in the Uphold device.</p> <p>2 When Pinnacle came to market and</p> <p>3 today, are you comfortable with polypropylene</p> <p>as the</p> <p>4 material that's used to make those meshes?</p> <p>5 A I'm comfortable with it based on the fact that</p> <p>there</p> <p>6 has been volumes of literature and a large world</p> <p>7 literature review of all the studies that have</p> <p>8 been published.</p> <p>9 And I've had long experience with it,</p> <p>10 and I -- you know, back in the beginning, I</p> <p>11 trusted Dr. Julian's long experience with it that</p> <p>12 came before my long experience with it.</p> <p>13 And as I saw my patients back, I</p> <p>14 became increasingly more comfortable with it.</p> <p>And as</p> <p>15 other surgeons were adopting it and continuing</p> <p>to</p> <p>16 perform mesh-reinforced prolapse repairs and</p> <p>they</p> <p>17 found that utilizing this fixation device helped</p> <p>them</p> <p>18 accomplish it, that increased my confidence in</p> <p>it.</p>	<p>498:23- 499:18 FRE 401; 403; 701; 702 Dr. Miller is not designated as an expert.</p>	<p><i>[Counter Designation to 498:23-499:18]</i></p> <p><i>dm052314, (Pages 568:23 to 569:4)</i></p> <p>568</p> <p>23 Q <i>This is -- this is the</i></p> <p><i>transcript -- if you'll look</i></p> <p>24 <i>at the screen just real</i></p> <p><i>briefly, this is the</i></p> <p>569</p> <p>1 <i>transcript from the</i></p> <p><i>webinar of February 25th,</i></p> <p><i>which</i></p> <p>2 <i>has previously been</i></p> <p><i>marked as Exhibit 775 to your</i></p> <p>3 <i>deposition, correct?</i></p> <p>4 A <i>Yes.</i></p> <p><i>dm052314, (Pages 569:24 to 570:3)</i></p> <p>569</p> <p>24 <i>You were the innovator of</i></p> <p><i>the</i></p> <p>570</p> <p>1 <i>Pinnacle, and then you</i></p> <p><i>and Dr. Goldberg share the</i></p> <p>2 <i>royalties on Uphold,</i></p> <p><i>true?</i></p> <p>3 A <i>True.</i></p> <p><i>dm052314, (Page 570:8 to 570:21)</i></p> <p>570</p> <p>8 Q <i>And what you say here</i></p> <p><i>is you do both Upholds</i></p> <p>9 <i>and Pinnacle. But four</i></p> <p><i>out of five for anterior</i></p> <p>10 <i>pelvic organ repair you</i></p> <p><i>use the Pinnacle. True?</i></p> <p>11 A <i>Yes.</i></p>

		<p>12 Q "Because I feel like if  13 you have a small piece of  14 mesh, you run the risk of  15 shrinkage causing too much  16 tension."  17 Did I read that  18 correctly?  19 A Correct.  20 Q "And I do feel that with  21 the Uphold you have to be  22 even more cautious  23 about not overtensioning  24 because  25 you don't have that  26 margin of error to accommodate  27 for the shrinkage that  28 occurs"; is that correct?  29 A Yes.</p> <p>571</p> <p>7 Q You would still today,  8 sitting here in May 2014,  9 agree that there is  10 shrinkage that occurs when the  11 body has polypropylene  12 mesh implanted for pelvic  13 organ prolapse repair?  14 MR. ANIELAK:  15 Form.  16 THE WITNESS: I  17 believe that in -- and this  18 is an important  19 distinction. I believe that in all  20 prolapse surgery,  21 whether sutures or grafts are  22 used,  23 shrinkage is an issue.  24 We deal with  25 vaginal stenosis and  26 native tissue repairs and  27 we deal with the shrinkage  28 that occurs when you  29 operate. We have to take into  30 account shrinkage of the  31 vagina anytime we operate on  32 it, including with these  33 products.  34 And I -- and I  35 felt particularly at  36 that time that -- that  37 Pinnacle had a -- had a -- had</p>
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	<p>23       a tolerance to shrinkage that I liked.</p> <p>dm052314, (Pages 572:12 to 573:7)</p> <p>572</p> <p>12   Q   But there is an experience of shrinkage around the</p> <p>13       polypropylene implant, correct?</p> <p>14               MR. ANIELAK: Form.</p> <p>15               THE WITNESS: Yes.</p> <p>16   BY MR. PERDUE:</p> <p>17   Q   Your point here in comparing Pinnacle, which has a</p> <p>18       bigger piece of mesh, as opposed to Uphold, which has</p> <p>19       a smaller piece of mesh, is that there is a margin</p> <p>20       for error to account for the shrinkage that is better</p> <p>21       achieved in Pinnacle?</p> <p>22               MR. ANIELAK: Form.</p> <p>23               THE WITNESS: That's what I was speculating</p> <p>24       about at that time.</p> <p>573</p> <p>1   BY MR. PERDUE:</p> <p>2   Q   That was -- that's your opinion as of February 2010?</p> <p>3               MR. ANIELAK: Form.</p> <p>4               THE WITNESS: It was my opinion in 2010,</p> <p>5       that you have to be cautious about overtensioning</p> <p>6       because shrinkage is one of the things that we deal</p> <p>7       with in surgery, yes.</p> <p>dm052314, (Pages 574:23 to 575:17)</p> <p>574</p> <p>23   Q   You, Dr. Miller, understood, as a physician who is</p>
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		<p>24 involved in stress urinary incontinence and pelvic 575</p> <p>1 organ prolapse surgery, that women who would undergo</p> <p>2 transvaginal repairs that involve the use of</p> <p>3 polypropylene -- polypropylene mesh could suffer</p> <p>4 shrinkage around the mesh implant after surgery?</p> <p>5 MR. ANIELAK: Form.</p> <p>6 THE WITNESS: You can't say "suffer" -- you</p> <p>7 can't suffer shrinkage.</p> <p>8 BY MR. PERDUE:</p> <p>9 Q Would experience. Would experience shrinkage around</p> <p>10 the implant, fair?</p> <p>11 MR. ANIELAK: Form.</p> <p>12 THE WITNESS: Connective tissue that is</p> <p>13 operated on shrinks. Every scar you have shrinks,</p> <p>14 including, but not limited to, those repairs that</p> <p>15 include polypropylene. Even though there's data that</p> <p>16 says otherwise, that is what I believe.</p> <p>dm052314, (Page 578:14 to 578:16)</p> <p>578</p> <p>14 Q Tissues shrink when operated on, and tissues exposed</p> <p>15 to polypropylene mesh shrink around it, fair?</p> <p>16 A Yes</p>
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**1. Objections to Designated Exhibits.**

- a. Plaintiffs object to Miller 1037 under FRE 401, 402, and 403 as the overview post-dates implantation of the Uphold devices at issue. Additionally, this exhibit impermissibly injects FDA testimony into the case.

**2. Plaintiffs Counter Exhibits**

- a. Miller 775

DATED: June 26, 2015

Respectfully Submitted,

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**CERTIFICATE OF SERVICE**

I hereby certify that on June 26, 2015, I electronically filed the foregoing document with the Clerk of the Court using the CM/ECF system which will send notification of such filing to the CM/ECF participants registered to receive service in this MDL.

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